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CGCTATCCCTCGTACAAACGCAAGAGCAGCAATTGGCCGTACAGAACGCTA
 M A V Q K Y T
 -25 -20
 GTGGCTCTTCGCCCCCTCGTGGCCCTCGTGGCCCCCGCCCTCTAACGCCGCTGAC
 V A L F L A V A L V A G P A A S Y A A D
 -10 -5 1
 -15
 GCGGCTACACCCCCGGCAGCCGGCCACCCCCGGCTACTCCTGCTGCCCACCCGGCTGCG
 A G Y T P A A A T P A T P A A T P A A
 5 10 15 20
 GCTGGAGGGAGCGACCGAGCAGAGCTGGAGGACGGTCAACCGCTGGCTTC
 A G G K A T T D E Q K L E D V N A G F
 25 30 35 40
 AGGCAGGCCGGCCGCTGCCAACGCCCTCCGGGACAAGTCAAGATCTTCGAG
 K A A V A A A N A P P A D K F K I F E
 45 50 55 60
 GCGCCTCTCCGAGTCCTCCAAGGGCCTCGCCACCCGCCAAGGCACCCGGC
 A A F S E S S K G L L A T S A A K A P G
 65 70 75 80
 CTCATCCCCAAGCTCGACACCGCCTACGACGTCGGCTACGGCTACAGA
 L I P K L D T A Y D V A Y K A A E G A T
 85 90 95 100
 CCCGAGGCCAAGTACGGACCCCTCGTCACTGGCTACGGCTACCCGCC
 P E A K Y D A F V T A L T E A L R V I A
 105 110 115 120
 GGCGCCCTCGAGGTCCAGGCCGTCAAGGCCACCGAGGAGGCTTGCTAAAGATC
 G A L E V H A V K P A T E V E V P A A K I
 125 130 135 140

Fig. 1

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CCACCGGTGAGCTGCAGATCGTTGACAAGATCGGATTCAGCTTGCTGCAGGCCACC		600
P T G E L Q I V D K I D A A F K I A A T		
145 150 155 160		
CCGCCAACGGCCCCAACCGATAAAGTTCACCGTCTCGAGAGTGCCTCAACAAAG		660
A A N A P T N D K F T V F E S A F N K		
165 170 175 180		
CCCTCAATGAGTGCACGGGGGGCCTATGAGACCTACAAAGTCACTCCCTCGAG		720
A L N E C T G G A Y E T Y K F I P S -L E		
185 190 195 200		
CCGGGGTCAAGCAGGGCTACGCCGCCACCGGTGCCGGCGCCGGAGGTCAAGTACGCC		780
A V K Q A Y A T V A A P E V K Y A		
205 210 215 220		
TCTTTGAGGCCGGCTGACCAAGGCCATCACGCCATGACCCAGGCACAGAAGGGCC		840
V F E A A L T K A I T A M T Q A Q K A G		
225 230 235 240		
AACCCGCTGCCACAGGGGCCAACCGGTGCCACCGCTGCCCCGGCAACCGCC		900
K P A A A T G A A T V A T G A A T A		
245 250 255 260		
CCGGGGTGGCCACCGGGCTGCTGGCTACAAAGCCTGATCAGCTTGCTTAATAT		960
A A G A T A A G G Y K A *		
265 270 275		
CTACTGAACGTTATGTATGCTGCATGATCCGGGGGGCGAGTGGTTGTTGATAATTATC		1020
TCGTTTCGTTTCATGCAGCCGGCATCGAGAGGGCTTGCATGCTTGTAATAATTCAATA		1080
TTTTCAATTCTTTGAATCTGTAATCCCCATGACAAGTAGTGGATCAAGTCGGCAT		1140
TATCACCGTTGACTGGGAGTTAACGATGGGATTCAGGAAATTATTAAAGAAAAAA		1200
AAAAAAAAAAAAAA		1225

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Fig. 1 cont.

LIX-1 ADAGYTXAAAATXATXAATX
LIX-1.1 ADAGYTPAAAATPATPAATP
LIX-2 ATXATXAATXAAAGGKATTD
LIX-2.1 ATPATPAATPAAAGGKATTD
LIX-3 AAAGGKATTDEQLLEDVNA
LIX-4 EQKLLEDVNAGFKAAVAAAA
LIX-5 GFKAAVAAAANAPPADKFKI
LIX-6 NAPPADKFKIFEAAFSESSK
LIX-7 FEAASFESSKGLLATSAAKA
LIX-8 GLLATSAAKAPGLIPKLDTA
LIX-9 PGLIPKLDTAYDVAYKAAEG
LIX-10 YDVAYKAAEGATPEAKYDAF
LIX-11 ATPEAKYDAFVTALTEALRV
LIX-12 VTALTEALRVIAGALEVHAV
LIX-13 IAGALEVHAVKPATEEVPA
LIX-14 KPATEEVPAAKIPTGELQIV
LIX-15 KIPTGELQIVDKIDAAFKIA
LIX-16 DKIDAAFKIAATAANAAPTN
LIX-17 ATAANAAAPTNDKFTVFESAF
LIX-18 DKFTVFESAFNKALNECTGG
LIX-19 NKALNECTGGAYETYKFIPS
LIX-20 AYETYKFIPSLEAAVKQAYA
LIX-21 LEAAVKQAYAATVAAAPEVK
LIX-22 ATVAAAPEVKYAVFEAALT
LIX-23 YAVFEAALTKAITAMTQAQK
LIX-24 AITAMTQAQKAGKPAAAAT
LIX-25 AGKPAAAATGAATVATGAA
LIX-26 GAATVATGAATAAAGAATAA
LIX-27 TAAAGAATAAAGGYKA

X REPRESENTS HYDROXYPROLINE RESIDUE

Fig. 2

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PEPTIDE NAME	PEPTIDE SEQUENCE
LPI-1	IAKVPPGPNIATAEYGDKWLD
LPI-1.1	IAKVXPGXNITAЕYGDKWLD
LPI-2	TAEYGDKWLD AKSTWYGKPTGAGPKDNGGA
LPI-3	AKSTWYGKPTGAGPKDNGGA
LPI-4	GAGPKDNGGACGYKNVDKAP
LPI-4.1	GAGPKDNGGACGYKDVKAP
LPI-5	CGYKDVKAPFNGMTGCGNT
LPI-6	FNGMTGCGNTPIFKDGRGCG
LPI-7	PIFKDGRGCGSCFEIKCTKP
LPI-8	SCFEIKCTKPESCSEAVTV
LPI-9	ESCSGEAVTVTITDDNEEPI
LPI-10	TITDDNEEPIAPYHFDLSGH
LPI-11	APYHFDLSGHAFGSMADDGE
LPI-11.1	APYHFDLSGHAFGSMAKKGE
LPI-12	AFGSMADDGEEQKLRSAGEL
LPI-12.1	AFGSMAKKGEEQKLRSAGEL
LPI-13	EQKLRSAGELELQFRRVKCK
LPI-14	ELQFRRVKCKYPDDTKPTFH
LPI-15	YPDDTKPTFHVEKASNPNYL
LPI-16	VEKASNPNYLAILVKYVDGD
LPI-16.1	VEKGNSNPNYLAILVKYVDGD
LPI-17	AILVKYVDGDGDVVAVDIKE
LPI-18	GDVVAVDIKEKGKDKWIELK
LPI-19	KGKDKWIELKESWGAWWRID
LPI-20	ESWGAWWRIDTPDKLTGPFT
LPI-21	TPDKLTGPFTVRYTTEGGTK
LPI-22	VRYTTEGGTKSEVEDVIPEG
LPI-23	SEVEDVIPEGWKADTSYSAK

Fig. 3

060207-410626200

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160277-1976-25-00

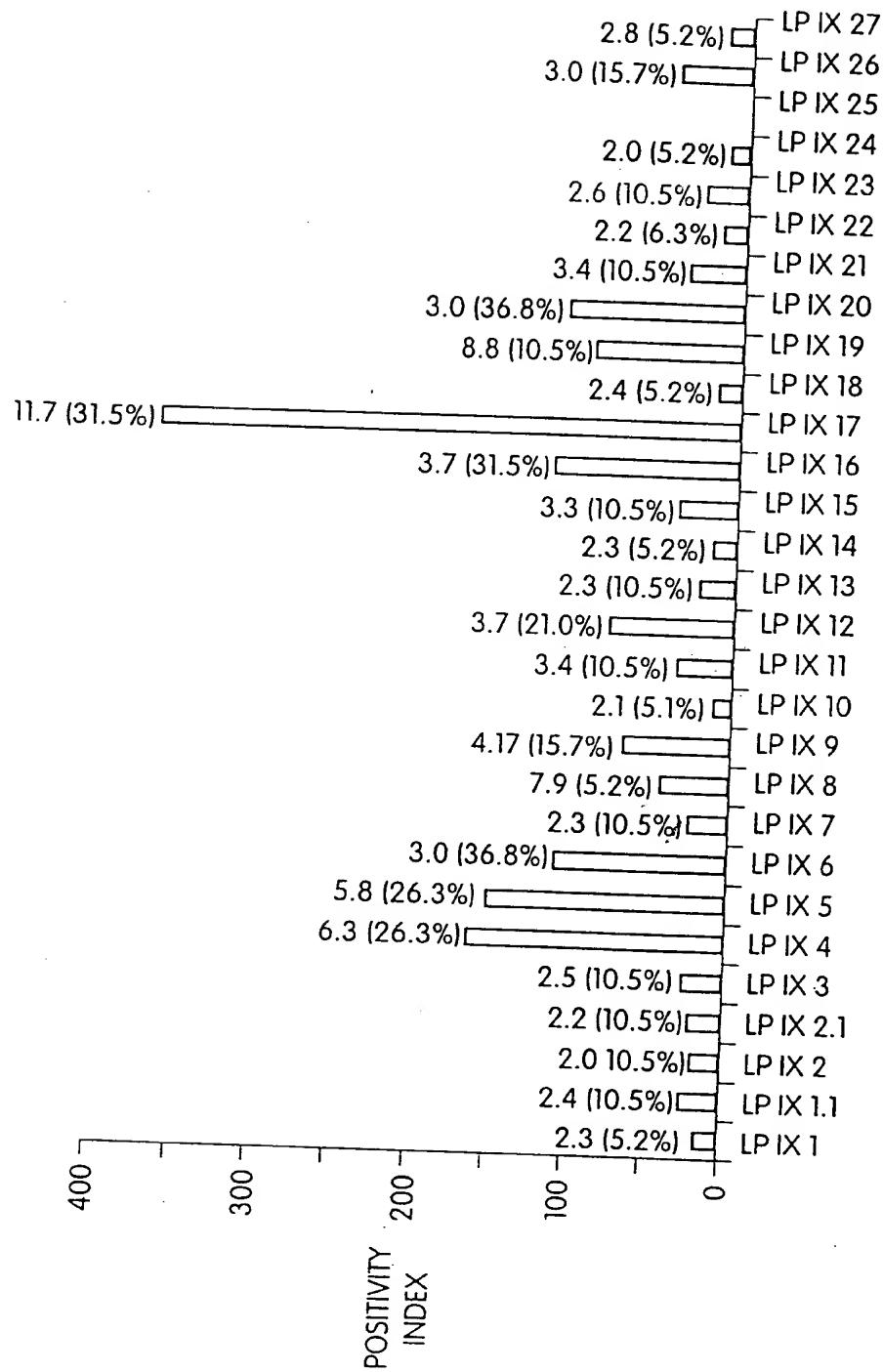


Fig. 4

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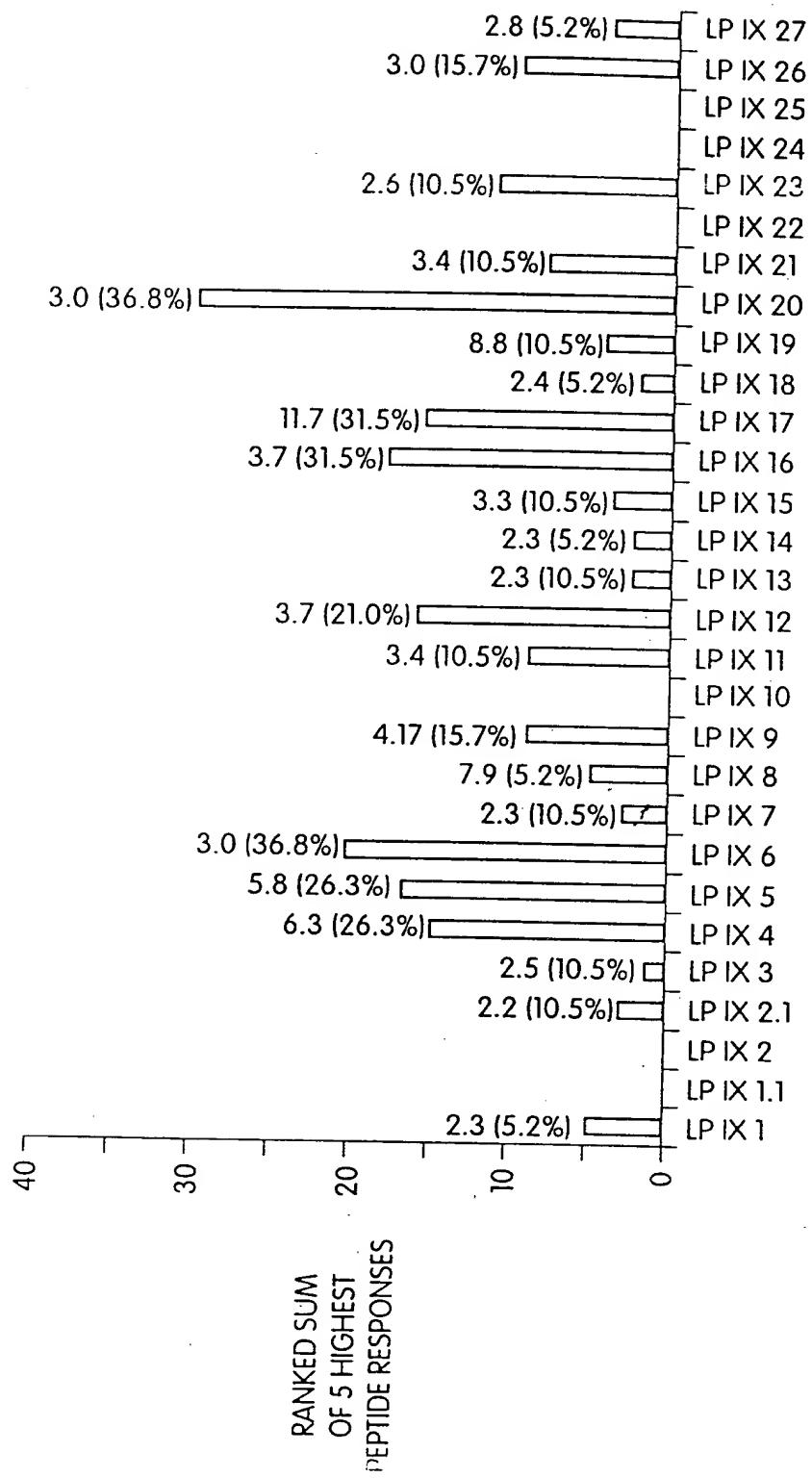


Fig. 5

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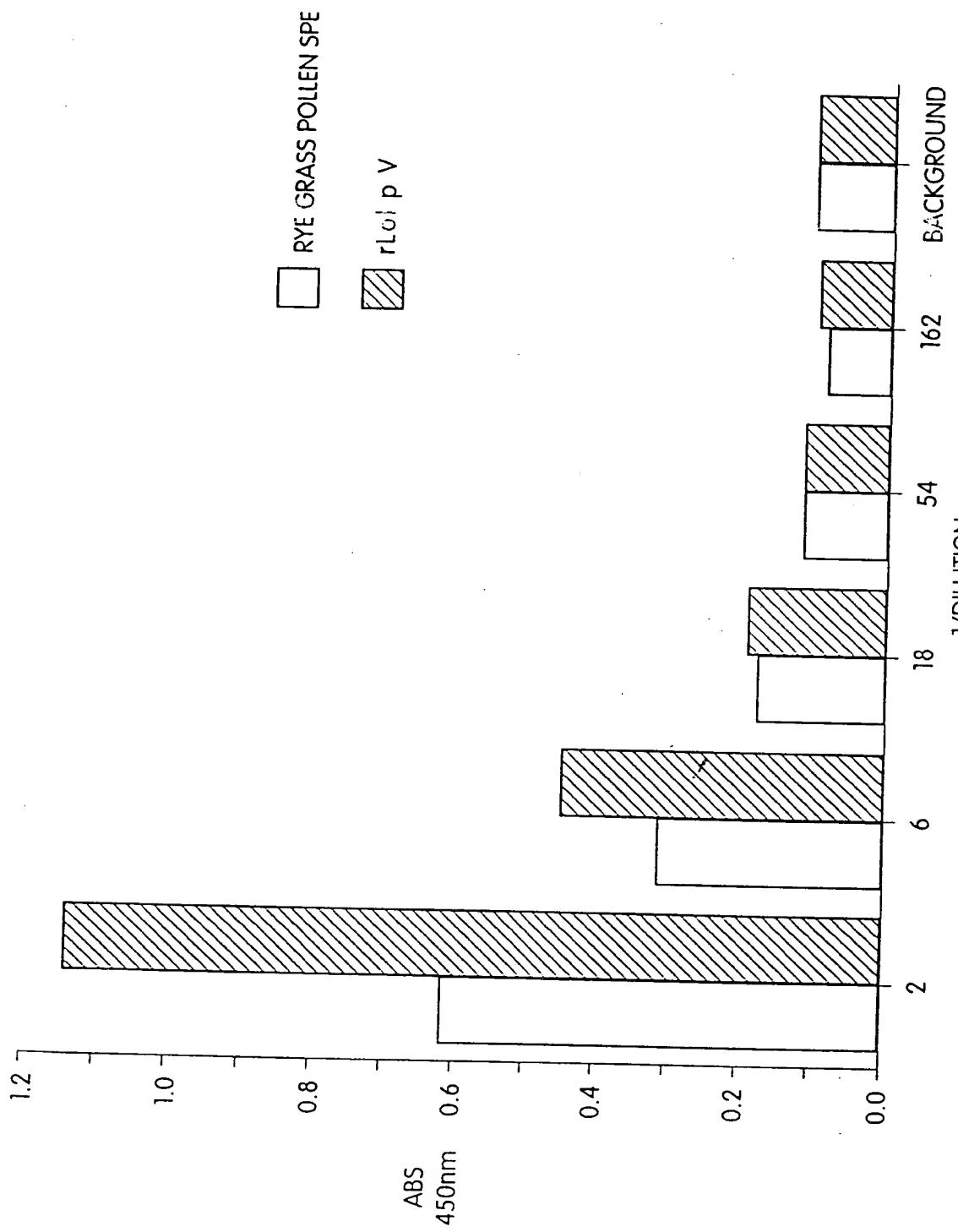


Fig. 6

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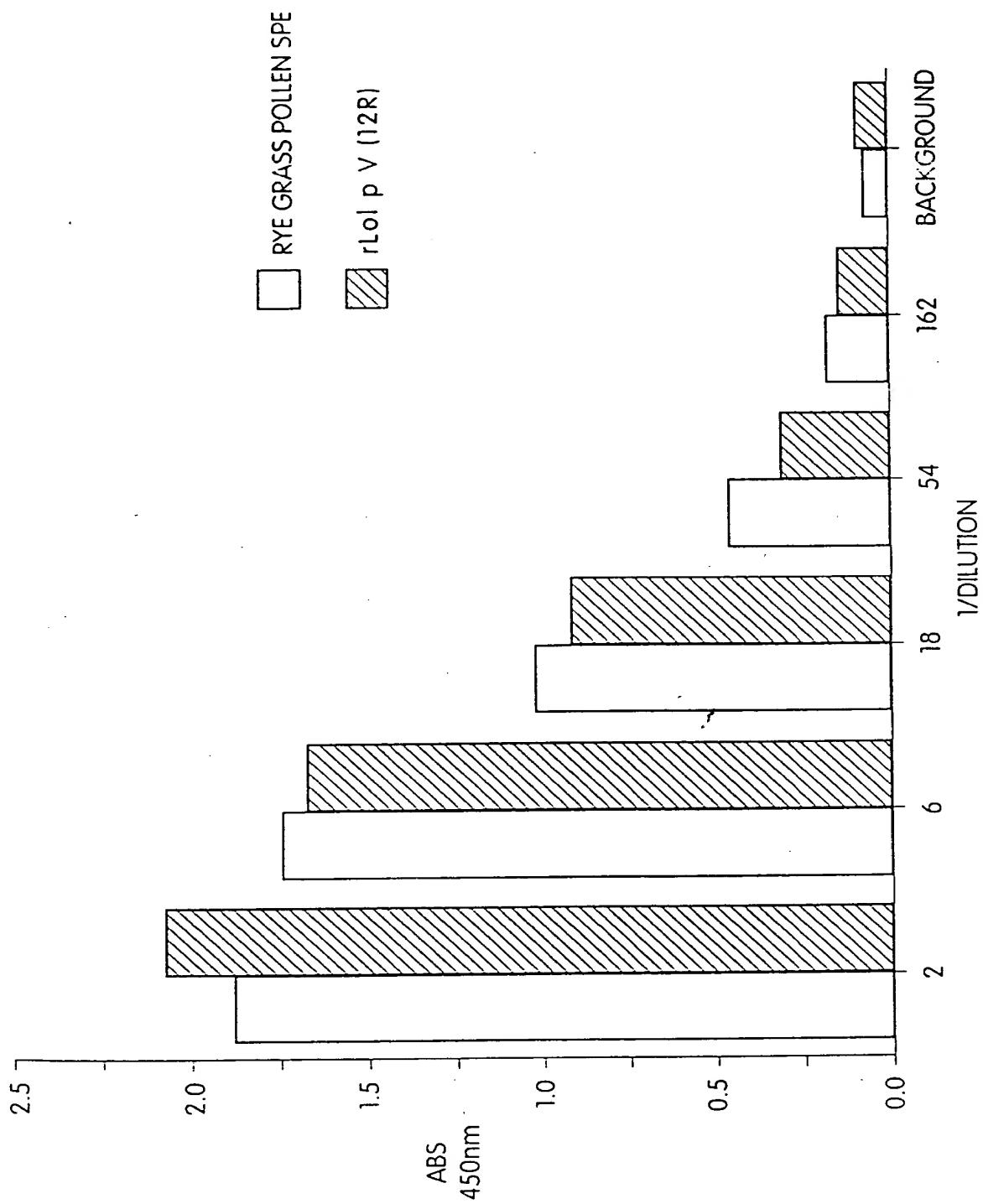


Fig. 7

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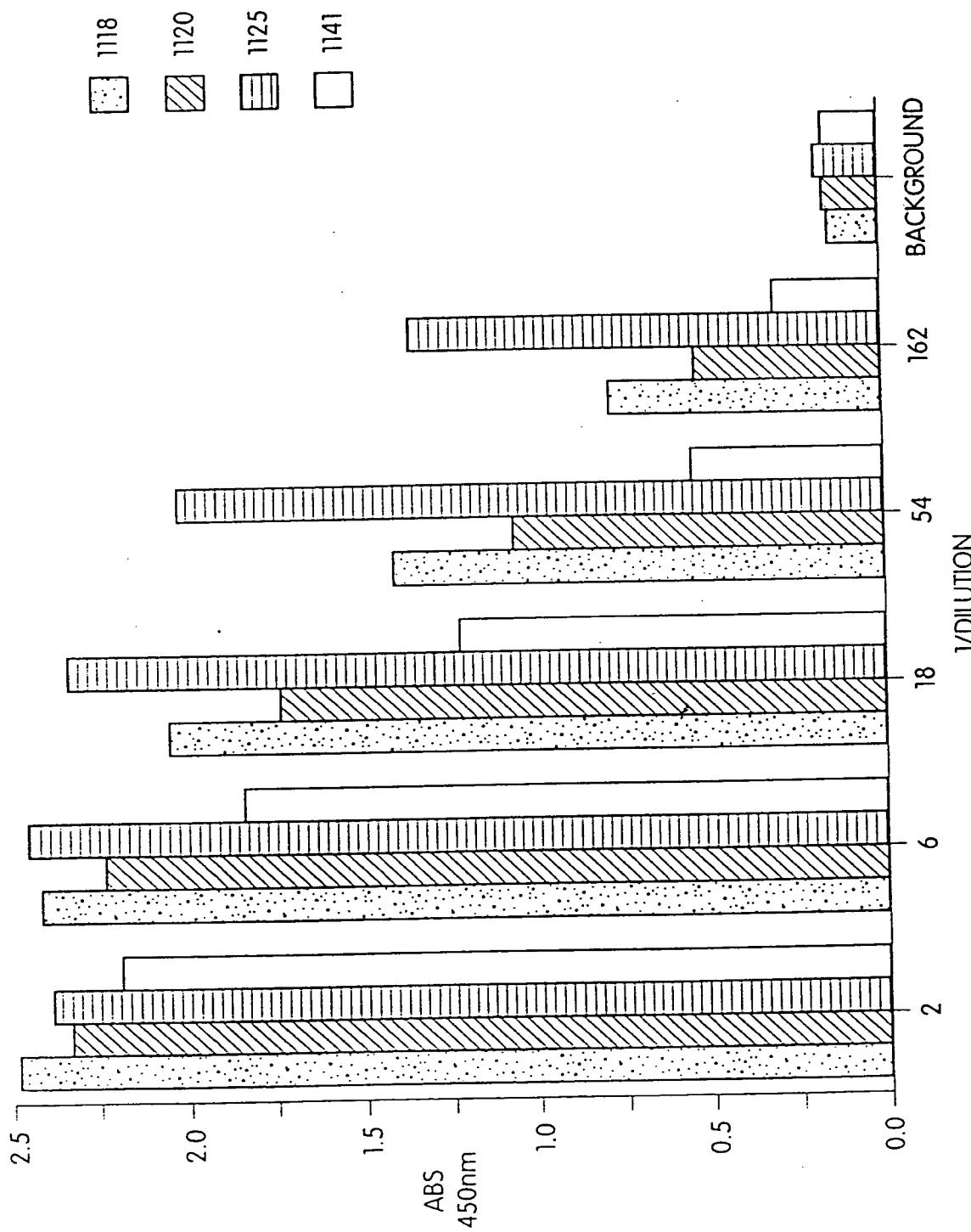


Fig. 8

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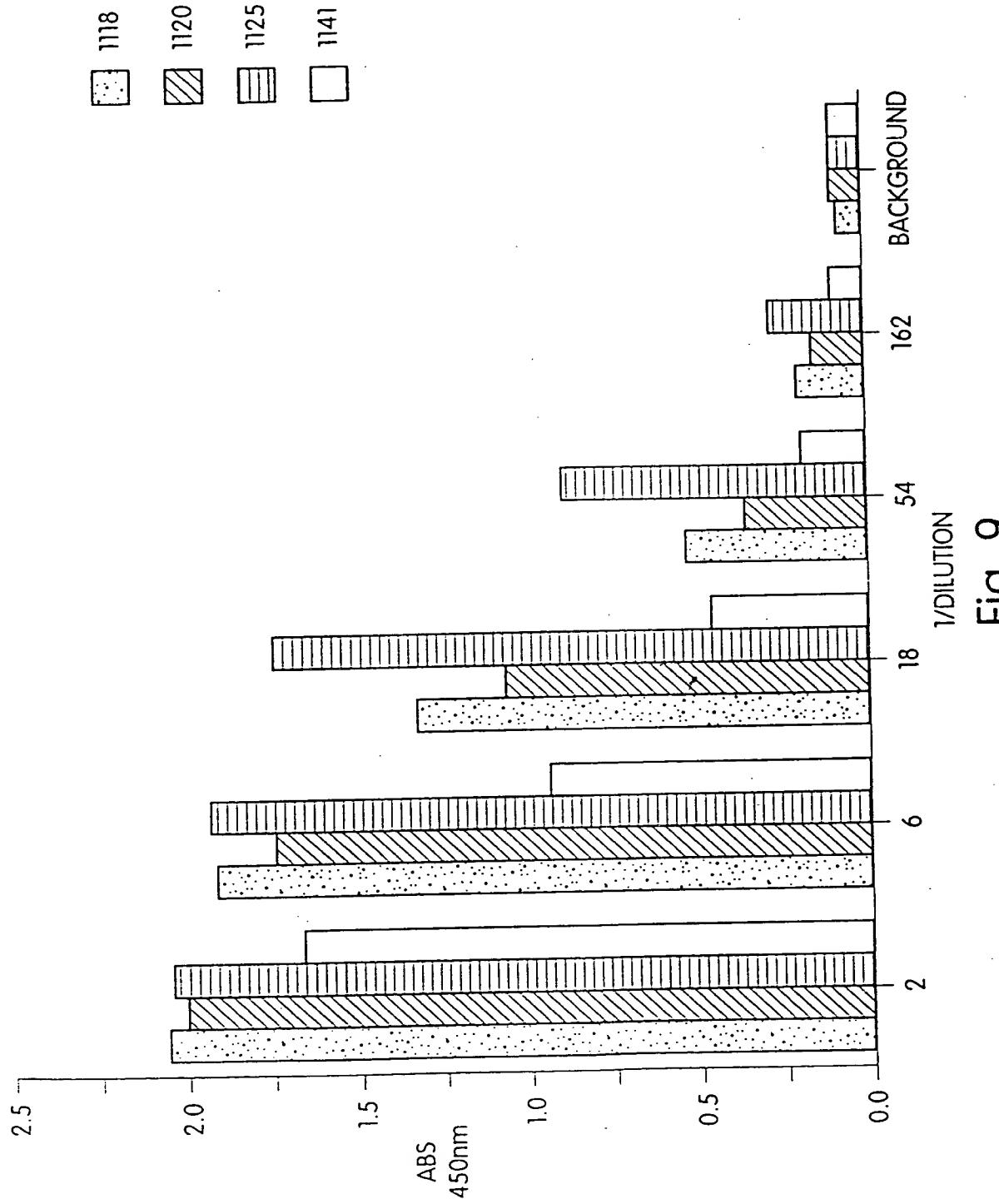


Fig. 9

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S S C I E N T I F I C M E A S U R E M E N T S

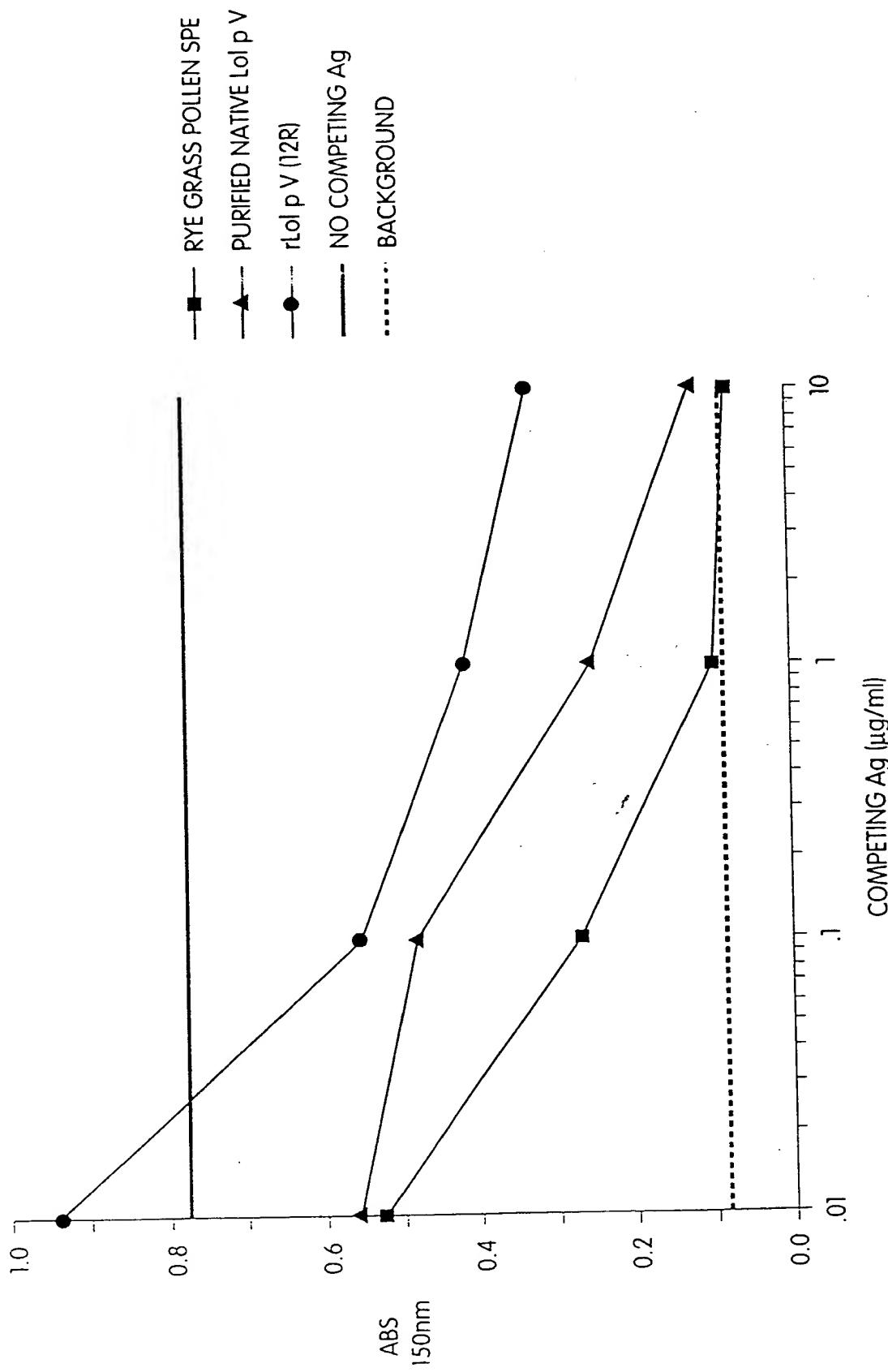


Fig. 10

SHOOT TUBE EQU

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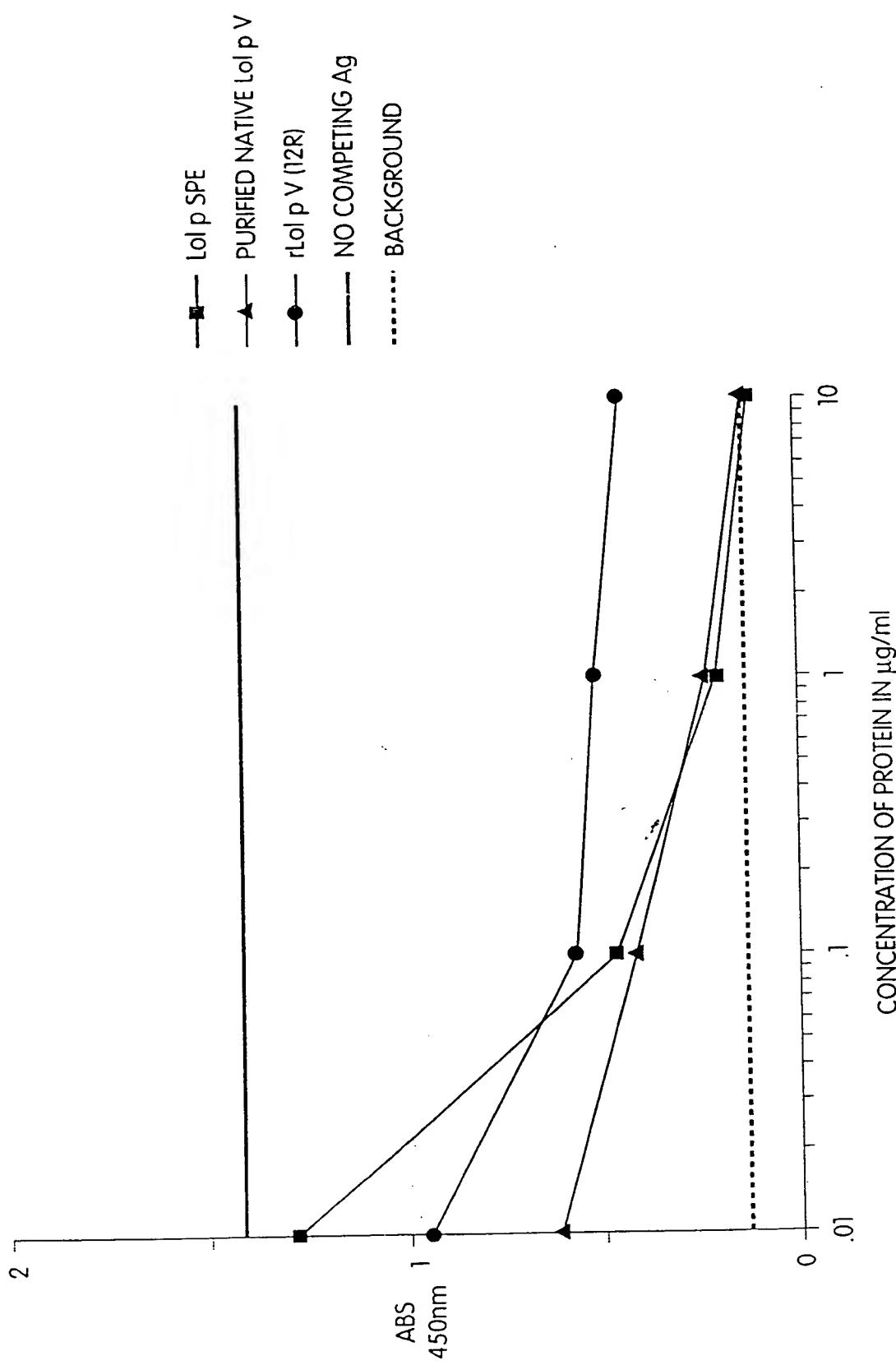


Fig. 11

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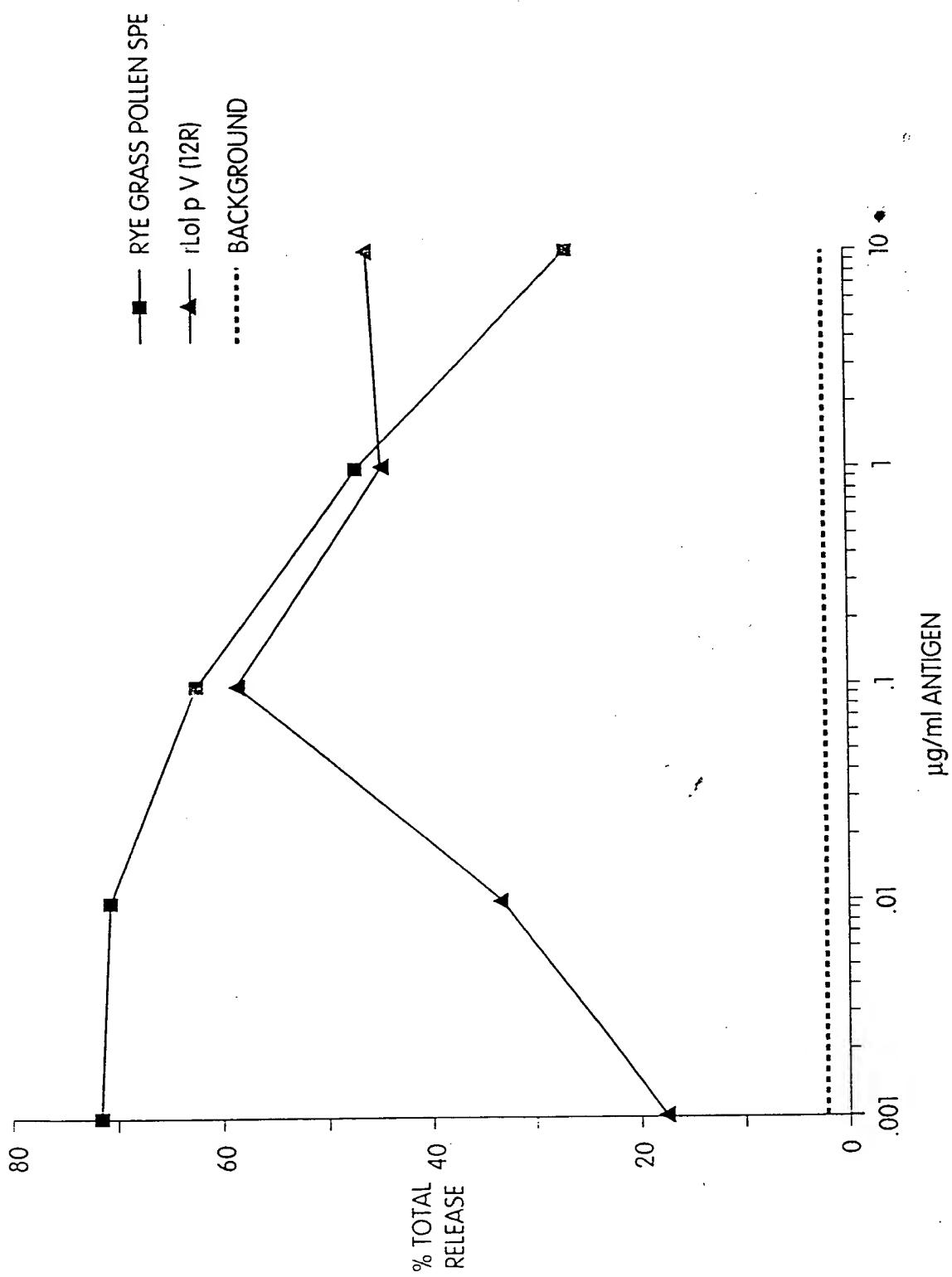


Fig. 12

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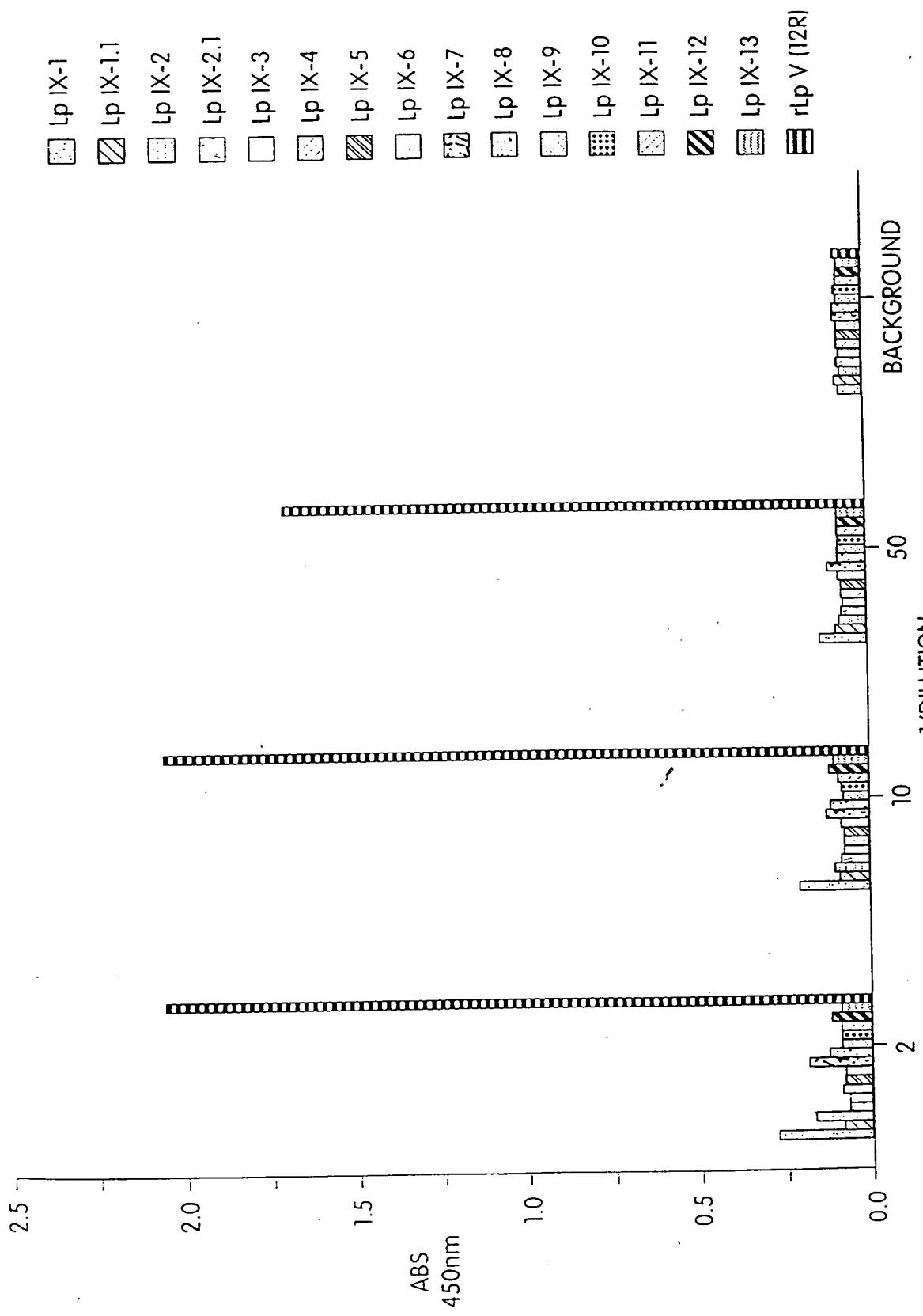


Fig. 13A

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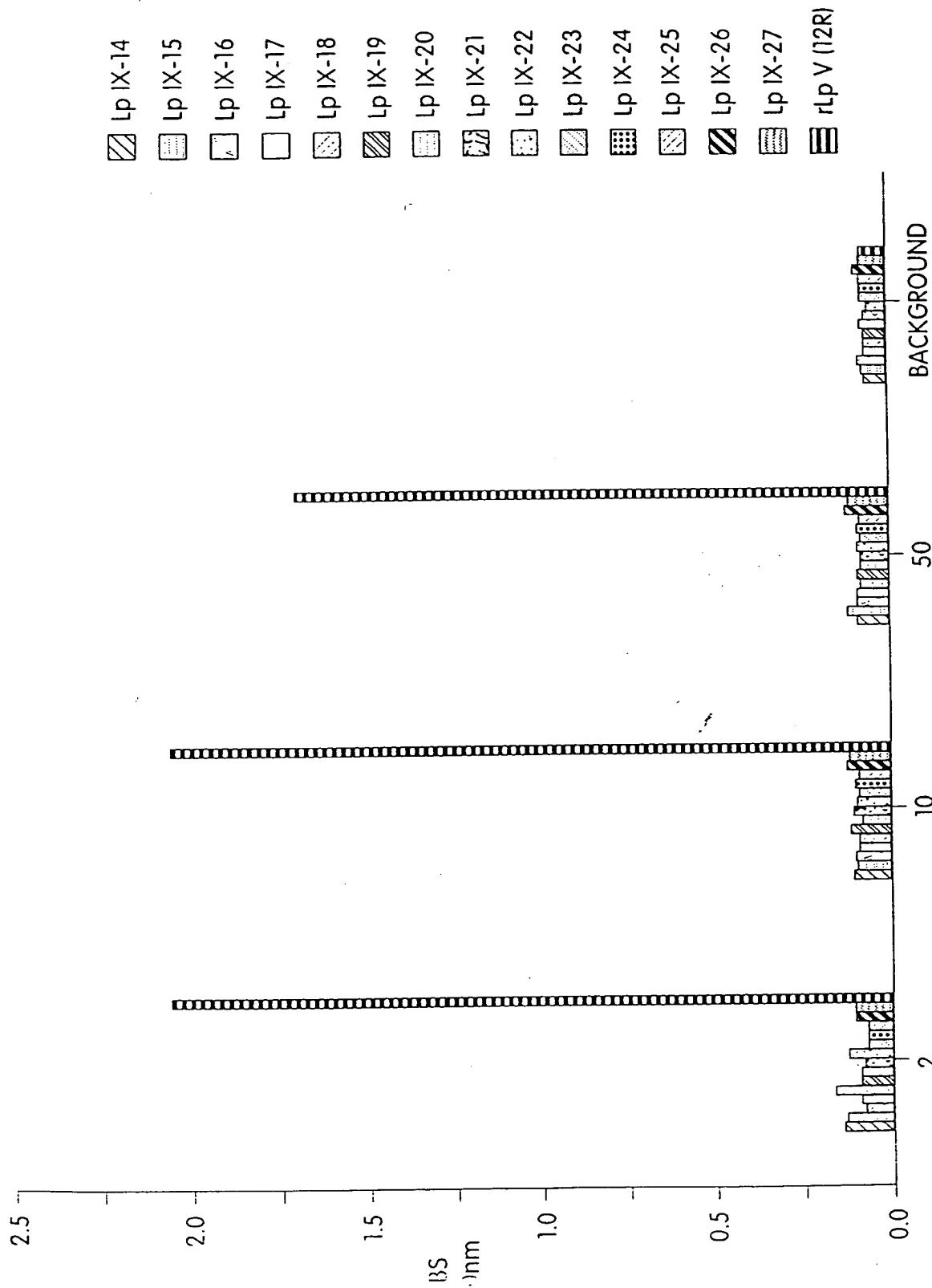


Fig. 13B

STANDARD PROTEIN

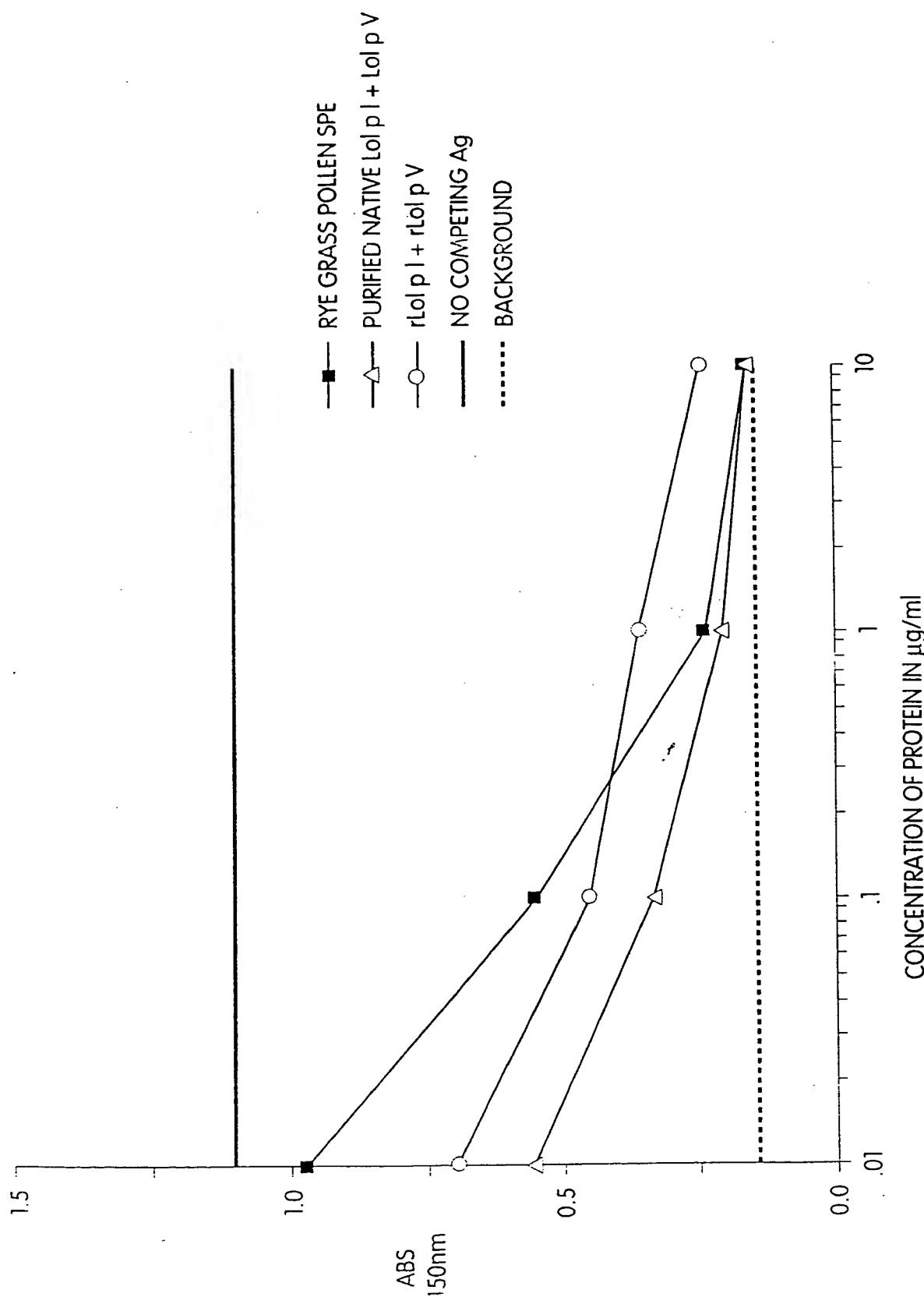


Fig. 14

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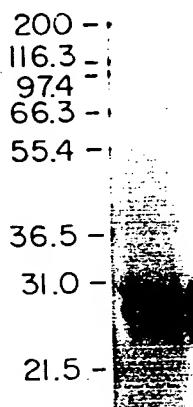


Fig. 15

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GAATTGGGATCCGGGTACCATGGCTCCGACAAACCAACGGCAAGGCATGGCA	58
M A	
-24	
TGGCAGGTACACGGTGGCCTGGCCCTCGTGTGGCCATGGCAATGGCA	118
V Q Q Y T V A L F L A V A S C R A R A S	
-20	
TACGCCGGACGGCTACGCCGGCAACTCCGCCACCCGGCTACCCCGGCC	178
Y A A D A G Y A P A T P A T P A T P A A	
-10	
CAGGGCGAGGGTGGCAGGCAGGGAAAGGGGAGCCGAGGAAGCTGAGAAG	238
P G A A V P A G K A A T E E Q K L I E K	
10	
TCAACGGGCTTCAAGGGCGCGGGCGGGCGGGCGGGCGGGCGGGCG	298
I N A G F K A A V A A A G V P P A D K	
20	
ACAAGACGGTTCGAAACCTTCGGCAAGGGCTCCAACAAGGGCTTGCGGACCTC	358
Y K T F V E T F G K A S N K A F L G D L	
30	
CGACCAACTACGCCGATGTCAACTCCAGCTCACCTCGAAAGCTCGACGCC	418
P T N Y A D V N S R A Q L T S K L D A A	
40	
ACAAGGCTCGCCTACGACGGCCAGGGCCACCCCCGAGGCCAAGTACGACGCC	478
Y K L A Y D A A Q G A T P E A K Y D A Y	
50	
90	
100	
110	

Fig. 16

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TCGCCACCCCTCAGCGAGGCGCTCCGCATCATCGCCCCCACCCCTCGAGGGTCCACGCCGTG 538
V A T L S E A L R I I A G T L E V H A V
120
AGCCCGCTGCCGAGGGTCAAGCCTATCCCGGGAGAGCTGCAGATCGTCGACAAG 598
K P A A E E V K P I P A G E L Q I V D K
130
TTGACGTCGCCCTCAGAACACTGCCGCCACCGCCAAACGCCGGCCCCAACGACAAG 658
I D V A F R T A A T A N A A P T N D K
140
TCACCGTATTGAGACCACCTTTAACAGGCCATCAAGGAGGCCACGGGGCACCTAC 718
F T V F E T T F N K A I K E S T G G T Y
150
AGAGCTACAAGTTCACTCCACCCCTTGAGGGCGCTTAAGCAGGCCTACGCCGCCACC 778
E S Y K F I P T L E A A V K Q A Y A A T
160
210
TCGCATCCGGCGGGAGGTCAAGTACGCCGGCTCTTGAGCACGGCTGAAAAAGGGGGTC 838
V A S A P E V K Y A V F E T A L K K A V
170
220
CCGCCATGTCCGAGGCCAGAAGGAAGCCAAGGCCACCGGCCACCCGACCCCCACC 898
T A M S E A Q K E A K P A T P T P T
180
240
250

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Fig. 16 cont.

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CAACTGCCGGCGGGTGGCCACCAACGCCGGCCGGCTGCTGGCTACAAA 958
A T A A V A T N A A P V A A G G Y K
260
TCTGATCAACTCGCTAGCAAATAACACATCCATCATGCACATAGCTGTGTATGTA 1018
T *
GTGCATGCATGCCGTGGCGCCGGCAAGTTGGCTCATATAATTCTTGTTTCGTTG 1078
TTGCATCCACGAGCACCAGGCCGTGGATACTGGCATGTGTATGTAATTCTGAG 1138
AATGTGTATATAATAATTGAGTACTAAAGAAAAAAA 1181

Fig. 16 cont.